

## CLAIMS

1. A vehicle entry and security system comprising:
- a key cylinder that is operated using a key;
  - a first cable having one end attached to said key cylinder;
  - a mechanical actuator attached to an opposite end of said first
- 5 cable;
- a second cable having one end attached to said mechanical
- actuator;
- a latch that is connected to an opposite end of said second cable
- and that is operable to release one of a door and a trunk of a vehicle; and
- 10 a switch that has a first and second state, wherein said mechanical
- actuator moves said switch from said first state to said second state when
- said key operates said key cylinder.
2. The vehicle entry and security system of claim 1 wherein said
- mechanical actuator pivots to actuate said switch.
3. The vehicle entry and security system of claim 1 wherein said
- mechanical actuator slides to actuate said switch.
4. The vehicle entry and security system of claim 1 further
- comprising:
- a key fob including a key fob controller;
  - a transmitter connected to said key fob controller;
  - a receiver connected to said key fob controller; and
  - a plurality of buttons connected to said key fob controller.
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5. The vehicle entry and security system of claim 4 further
- comprising a said vehicle security system that includes:

- 5           a controller;  
            a transmitter connected to said controller;  
            a receiver connected to said controller; and  
            an antenna.

6. The vehicle entry and security system of claim 5 wherein said vehicle security system triggers an alarm when said one of said door and said trunk is opened without using said key fob.

7. The vehicle entry and security system of claim 6 wherein said vehicle security system monitors said state of said switch and prevents said alarm from being triggered when said switch is in said second state.

8. The vehicle entry and security system of claim 7 wherein when said key is operated a first predetermined number of times within a first predetermined period, said vehicle security system reprograms said key fob.

9. The vehicle entry and security system of claim 1 wherein said mechanical actuator is mounted inside a housing.

10. The vehicle entry and security system of claim 9 wherein said first cable forms part of a first cable assembly that also includes a first end connector and a sheath and wherein said first end connector is connected to said housing.

11. A vehicle entry and security system comprising:  
a key cylinder that is operated using a key;

- a key fob including a controller, a transmitter and a receiver that are connected to said controller, and a button that is connected to said controller;
- 5 a housing;
- a first cable assembly including a first cable and a first end connector that is attached to said housing, wherein one end of said first cable is attached to said key cylinder;
- 10 a mechanical actuator connected to said housing and to an opposite end of said first cable;
- a second cable assembly including a second cable and a second end connector that is attached to said housing, wherein one end of said second cable is attached to said mechanical actuator;
- 15 a latch that is connected to an opposite end of said second cable and that releases one of a door and a trunk of a vehicle;
- a switch that has a first and second states, wherein said mechanical actuator moves said switch from said first state to said second state when said key operates said key cylinder; and
- 20 a vehicle security system that includes an alarm and that unlocks said one of said door and said trunk and disables said alarm when said key fob is used, that triggers an alarm when said one of said door and said trunk is opened without using said key fob, and that monitors a state of said switch and prevents said alarm from being triggered when said switch is moved to
- 25 said second state by said key.

12. The vehicle entry and security system of claim 11 wherein said mechanical actuator pivots to actuate said switch.

13. The vehicle entry and security system of claim 11 wherein said mechanical actuator slides to actuate said switch.

15. The vehicle entry and security system of claim 14 wherein when said key is operated a first predetermined number of times within a first predetermined period, said vehicle security system reprograms said key fob.

15. The vehicle entry and security system of claim 14 wherein when said key is operated a first predetermined number of times within a first predetermined period, said vehicle security system reprograms said key fob.